

A data transmission apparatus employing an orthogonal frequency division multiplex system. A receiver included therein analyzes a cross-correlation value sequence signal (CT) which has been acquired from the arithmetic operation of the correlation between a received signal and a predetermined symbol signal to detect an effective correlation peak in which the inter-symbol interference becomes minimum, and on the basis of the effective correlation peak thus detected, carries out the processing of synchronizing a reception sampling clock, and the control for the frame timing and the symbol timing of the receiver.